

REMARKS

Claims 1-18 are pending. Claims 12-18 have been added. No new matter has been added.

The Office Action rejects claims 1-11 under 35 U.S.C. 103 as being obvious over Emerson (U.S. Patent Application No. 20040103230) in view of Adams (U.S. Patent No. 6,769,046). Applicants respectfully assert that the combination of Emerson and Adams fail to disclose or suggest the features of claim 1 which include the resource manager determining whether the at least one connection with the communication channels being available based on the connection properties being available and the features of claim 7 which include the first module issuing a request for a connection with the second module to a communication manager, the resource manager determining whether a target connection with the desired connection properties is available, and the resource manager responding with the availability of the target connection to the communication manager.

The Office Action asserts that Emerson has a communication manager which is a multi-core module 102 and also has a resource manager which is arbiter 112. The Arbiter 112 of Emerson is a device for prioritizing which port 120 of the module 102 is to be utilized:

[0026] If the address received at a port matches that of the module for that bus, access to multiplexer 122 and the memory space of FIFO 126 and SRAM 130 is arbitrated by arbiter 132. **Arbiter 132 arbitrates which port has use of multiplexer 122 and of the memory space at a given time. The arbitration protocol may be any protocol suitable for the system, including rotation of the priority among the ports or assigning specific ports a priority over others, or a combination of both.** It is preferred that any given arbitration

cycle prioritizes ports 120 so that if the port with the highest priority does not have any current requests, the port with the next highest priority will be serviced. (Emerson par. 0026)(emphasis added).

The Arbiter 112 of Emerson does not disclose or suggest the features of claim 1 which include the resource manager determining whether the at least one connection with the communication channels is available based on the connection properties being available and the features of claim 7 which include the first module issuing a request for a connection with the second module to a communication manager, the resource manager determining whether a target connection with the desired connection properties is available, and the resource manager responding with the availability of the target connection to the communication manager.

Adams is relied upon by the Office Action for its configurable registers:

A second method of configuring the system resource router includes programming a set of configuration registers through a command port. Such allows changes to be made to memory size, memory types, and memory timing. These changes are preferably made after the device has been synthesized and delivered by simply modifying the intellectual property (IP) software. (Adams col. 5, line 66 – col. 6, line 6).

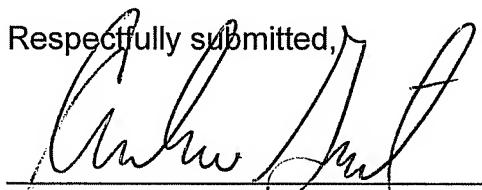
Similar to Emerson, Adams also does not disclose or suggest the features of claim 1 which include the resource manager determining whether the at least one connection with the communication channels is available based on the connection properties being available and the features of claim 7 which include the first module issuing a request for a connection with the second module to a communication manager, the resource manager determining whether a target connection with the desired connection properties is available, and the resource manager responding with the availability of the target connection to the communication manager.

Claims 2-10 and 12-18 depend from claims 1 and 7, respectively, and, thus, are also not rendered obvious by this combination of art.

Accordingly, for at least the above-described reasons, withdrawal of the rejections is respectfully requested. Favorable consideration and early issuance of the Notice of Allowance are respectfully requested.

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Respectfully submitted,


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